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1 [Special session: electrothermal design of nanoscale integrated circuits:](#)



[Electrothermal engineering in the nanometer era: from devices and interconnects to circuits and systems](#)

Kaustav Banerjee, Sheng-Chih Lin, Navin Srivastava

January 2006 **Proceedings of the 2006 conference on Asia South Pacific design automation ASP-DAC '06****Publisher:** ACM PressFull text available: [pdf\(763.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Management of electrothermal (ET) issues arising due to power dissipation both at the micro- and macro- scale is central to the development of future generation microprocessors, integrated networks, and other highly integrated circuits and systems. This paper will provide a broad overview of various ET effects in nanoscale VLSI and highlight both technology and design choices that are thermally-aware. First, effects at the micro scale---in interconnects and devices and their implications for per ...

2 [Seeing, hearing, and touching: putting it all together](#)



[Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink](#)

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04****Publisher:** ACM PressFull text available: [pdf\(20.64 MB\)](#) Additional Information: [full citation](#)

3 [Modeling and simulating electronic textile applications](#)



[Thomas Martin, Mark Jones, Joshua Edmison, Tanwir Sheikh, Zahi Nakad](#)

June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '04**, Volume 39 Issue 7**Publisher:** ACM PressFull text available: [pdf\(421.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes our design of a simulation environment for electronic textiles (e-textiles) and our experiences with that environment. This simulation environment, based upon Ptolemy II, enables us to model a diverse range of areas related to the design of electronic textiles, including the physical environment they will be used in, the behavior of the sensors incorporated into the fabric, the on-fabric network, the power consumption of

the system, and the execution of the application and s ...

Keywords: context awareness, electronic textiles, smart fabrics, wearable computing

4 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels



Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

5 Applications: Data collection, storage, and retrieval with an underwater sensor network



I. Vasilescu, K. Kotay, D. Rus, M. Dunbabin, P. Corke

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: pdf(531.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a novel platform for underwater sensor networks to be used for long-term monitoring of coral reefs and fisheries. The sensor network consists of static and mobile underwater sensor nodes. The nodes communicate point-to-point using a novel high-speed optical communication system integrated into the TinyOS stack, and they broadcast using an acoustic protocol integrated in the TinyOS stack. The nodes have a variety of sensing capabilities, including cameras, water temperatu ...

Keywords: data muling, mobile sensor networks, underwater networks

6 Networked sensor energy management: Design considerations for solar energy harvesting wireless embedded systems

















Vijay Raghunathan, Aman Kansal, Jason Hsu, Jonathan Friedman, Mani Srivastava

April 2005 **Proceedings of the 4th international symposium on Information processing in sensor networks IPSN '05**

Publisher: IEEE Press

Full text available: pdf(227.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Sustainable operation of battery powered wireless embedded systems (such as sensor nodes) is a key challenge, and considerable research effort has been devoted to energy optimization of such systems. Environmental energy harvesting, in particular solar based, has emerged as a viable technique to supplement battery supplies. However, designing an efficient solar harvesting system to realize the potential benefits of energy harvesting requires an in-depth understanding of several factors. For exam ...

-  Papers from MC²R open call: Towards integrated PSEs for wireless communications: experiences with the S⁴W and SitePlanner® projects 
 Roger R. Skidmore, Alex Verstak, Naren Ramakrishnan, Theodore S. Rappaport, Layne T. Watson, Jian He, Srinidhi Varadarajan, Clifford A. Shaffer, Jeremy Chen, Kyung Kyoon Bae, Jing Jiang, William H. Tranter
 April 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 2
Publisher: ACM Press
 Full text available:  pdf(620.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 This paper describes the computational methodologies of two problem solving environments (PSEs) for wireless network design and analysis, one academic (S⁴W) and one commercial (SitePlanner®). The PSEs address differently common computational issues such as environment specification, propagation modeling, channel performance prediction, system design optimization, and data management. The intended uses, interfaces, and capabilities of the two PSEs are compared and contrasted in a c ...
- 8 An efficient methodology for extraction and simulation of transmission lines for application specific electronic modules 
 S. Y. Kim, E. Tuncer, R. Gupta, B. Krauter, T. Savarino, D. P. Neikirk, L. T. Pillage
 November 1993 **Proceedings of the 1993 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society Press
 Full text available:  pdf(820.96 KB) Additional Information: [full citation](#), [references](#), [citations](#)
- 9 Voice response systems 
 D L. Lee, F H. Lochovsky
 December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4
Publisher: ACM Press
 Full text available:  pdf(2.22 MB) Additional Information: [full citation](#), [references](#), [index terms](#)
- 10 Unconventional human computer interfaces 
 Steffi Beckhaus, Ernst Kruijff
 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
 Full text available:  pdf(2.89 MB) Additional Information: [full citation](#), [abstract](#)
 This course focuses on how we can use the potential of the human body in experimental or unconventional interface techniques. It explores the biological or physiological characteristics of the separate parts of the body, from head to toe, and from skin to heart, showing how their sensor (input) and control (output) capabilities can be applied to human computer interfaces. We demonstrate a wide variety of applications that make use proven interfaces as well as extremely experimental systems. Exam ...
- 11 FoleyAutomatic: physically-based sound effects for interactive simulation and animation 
 Kees van den Doel, Paul G. Kry, Dinesh K. Pai
 August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
 Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

We describe algorithms for real-time synthesis of realistic sound effects for interactive simulations (e.g., games) and animation. These sound effects are produced automatically, from 3D models using dynamic simulation and user interaction. We develop algorithms that are efficient, physically-based, and can be controlled by users in natural ways. We develop effective techniques for producing high quality continuous contact sounds from dynamic simulations running at video rates which are slow ...

Keywords: animation systems, computer games, head mounted displays, multimedia, physically based animation, physically based modeling, sound visualization, virtual reality

12 Oral II: New pen device for biometrical 3D pressure analysis of handwritten characters, words and signatures



Christian Hook, Juergen Kempf, Georg Scharfenberg

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Publisher: ACM Press

Full text available: pdf(593.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The demand for biometric applications in security, human computer interaction and related areas is rapidly increasing. This paper presents an unique biometrical smart pen BiSP for personal identification and handwriting recognition that has been developed in our laboratory. The system is superior to many other biometric techniques which have considerable disadvantages in practice. Several ballpoint like prototypes based on integrated sensors have been designed and constructed. In this report we ...

Keywords: acoustic handwriting recognition, biometric identification, microphone pen, multimodal biometrics, pen-pressure analysis, signature verification

13 FEMSTER: An object-oriented class library of high-order discrete differential forms



Paul Castillo, Robert Rieben, Daniel White

December 2005 **ACM Transactions on Mathematical Software (TOMS)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(639.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

FEMSTER is a modular finite element class library for solving three-dimensional problems arising in electromagnetism. The library was designed using a modern geometrical approach based on differential forms (or p -forms) and can be used for high-order spatial discretizations of well-known $H(\text{div})$ - and $H(\text{curl})$ -conforming finite element methods. The software consists of a set of abstract interfaces and concrete classes, providing a framework in which the user is able to add new ...

Keywords: $H(\text{div})$ - and $H(\text{curl})$ -conforming finite element methods, computational electromagnetism, high-order finite element, object-oriented programming

14 Selected M-Related Dissertations Bibliography



November 1990 **ACM SIGART Bulletin**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online data-base produced by University Microfilms International (UMI).

Agriculture, Animal Culture and Nutrition**15 Biological aspects of mobile communication fields**

James C. Lin

November 1997 **Wireless Networks**, Volume 3 Issue 6**Publisher:** Kluwer Academic PublishersFull text available:  pdf(332.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our knowledge on the biological effects of RF radiation has been increasing for many decades. It has become a focus of attention because of the accelerated use of RF radiation for wireless communication over the past few years. It is fairly well established that at sufficiently high power levels, RF and microwave energy can produce deleterious biological effects. Wireless communication systems use low power modulated forms of RF and microwave radiation that was not investigated extensively ...

16 Simulation analysis of a collisionless multiple access protocol for a wavelength division multiplexed star-coupled configuration

Patrick W. Dowd, Kalyani Bogineni

April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92****Publisher:** IEEE Computer Society PressFull text available:  pdf(1.04 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**17 A comparative study of single hop WDM interconnections for multiprocessors**

Kiran R. Desai, Kanad Ghose

July 1995 **Proceedings of the 9th international conference on Supercomputing****Publisher:** ACM PressFull text available:  pdf(1.26 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**18 Main track: Design and testing of robust acoustic arrays for localization and enhancement of several bird sources**

Chiao-En Chen, Andreas M. Ali, Hanbiao Wang

April 2006 **Proceedings of the fifth international conference on Information processing in sensor networks IPSN '06****Publisher:** ACM PressFull text available:  pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Sensor network technology can revolutionize the study of animal ecology by providing a means of non-intrusive, simultaneous, unmanned monitoring. In this paper, we investigate the design, analysis, and testing of acoustic arrays for localizing bird vocalizations of different species. The spectra of the bird waveforms affect the desired dimension of the array. Microphones are placed in a uniform circular array and are finely synchronized within a few microseconds. We apply the Approximate Maximum ...

Keywords: DOA, acoustic array, beamforming, biocomplexity, source localization**19 Some applications of Maple symbolic computation to scientific and engineering problems**

T. C. Scott, G. J. Fee

July 1990 **Proceedings of the international symposium on Symbolic and algebraic computation**

Publisher: ACM Press

Full text available:  pdf(209.02 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Session 51: analog design and design assistance: SOC-NLNA: synthesis and optimization for fully integrated narrow-band CMOS low noise amplifiers



Arthur Nieuwoudt, Tamer Ragheb, Yehia Massoud

July 2006 **Proceedings of the 43rd annual conference on Design automation DAC '06**

Publisher: ACM Press

Full text available:  pdf(746.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present SOC-NLNA, a systematic synthesis methodology for fully integrated narrow-band CMOS Low Noise Amplifiers (LNA) in high performance System-on-Chip (SoC) designs. SOC-NLNA is based on deterministic numerical nonlinear optimization and the Normal Boundary Intersection (NBI) method for Pareto optimization. To enable SoC integration, we simultaneously optimize both devices and passive components to yield integrated inductor values that are significantly less than those generat ...

Keywords: LNA optimization, analog synthesis, low noise amplifier

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


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 Rocchesso, D.; Smith, J.O., III;
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 Volume 11, Issue 3, May 2003 Page(s):242 - 254
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 Amir, N.; Starobinski, R.;
[Electrical and Electronics Engineers in Israel, 1996., Nineteenth Convention of](#)
 5-6 Nov. 1996 Page(s):64 - 67
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 Pajewski, W.; Kielczynski, P.; Szalewski, M.;
[Ultrasonics Symposium, 1995. Proceedings., 1995 IEEE](#)
 Volume 2, 7-10 Nov. 1995 Page(s):989 - 992 vol.2
 Digital Object Identifier 10.1109/ULTSYM.1995.495729
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- ☐ **Waveguide physical modeling of vocal tract acoustics: flexible formant bandwidth control for dimensionality**
 Mullen, J.; Howard, D.M.; Murphy, D.T.;
[Audio, Speech and Language Processing, IEEE Transactions on \[see also Speech and Audio Proc Transactions on\]](#)
 Volume 14, Issue 3, May 2006 Page(s):964 - 971
 Digital Object Identifier 10.1109/TSA.2005.858052
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- Real-Time Dynamic Articulations in the 2-D Waveguide Mesh Vocal Tract Model**
 Mullen J. ; Howard D.M. ; Murphy D.T. ;
[IEEE Transactions on Audio, Speech, and Language Processing. : Accepted for future publication](#)
 Volume PP, Issue 99, 2006 Page(s):1 - 1

Digital Object Identifier 10.1109/TASL.2006.876751

[AbstractPlus](#) | Full Text: [PDF](#)(1376 KB) IEEE JNL



6. Waveguide coupling of SAW resonators with different properties

Martin, G.; Wall, B.;

[Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on](#)

Volume 47, Issue 6, Nov. 2000 Page(s):1604 - 1609

Digital Object Identifier 10.1109/58.883550

[AbstractPlus](#) | Full Text: [PDF](#)(388 KB) IEEE JNL

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7. Bore reconstruction of tubular ducts from its acoustic input impedance curve

Kausel, W.;

[Instrumentation and Measurement, IEEE Transactions on](#)

Volume 53, Issue 4, Aug. 2004 Page(s):1097 - 1105

Digital Object Identifier 10.1109/TIM.2004.831440

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8. Low resistance quartz resonators for automotive applications without spurious modes

Mayer, M.; Bergmann, A.; Wagner, K.; Schemies, M.; Telgmann, T.; Glas, A.;

[Ultrasonics Symposium, 2004 IEEE](#)

Volume 2, 23-27 Aug. 2004 Page(s):1326 - 1329 Vol.2

Digital Object Identifier 10.1109/ULTSYM.2004.1418037

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9. A new low impedance balanced drive structure for SAW transversely coupled resonator filter

Solal, M.; Desbois, J.;

[Ultrasonics Symposium, 1997, Proceedings., 1997 IEEE](#)

Volume 1, 5-8 Oct. 1997 Page(s):83 - 88 vol.1

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TITLE: Waveguide modeling and design system

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Manrique</u> , Pedro	Pasadena	CA	US

US-CL-CURRENT: 381/342; 381/337, 381/340

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